AUTOMOTIVE

Parts Page Reorder No. APD97•08
Effective April, 1997

DynaFine™

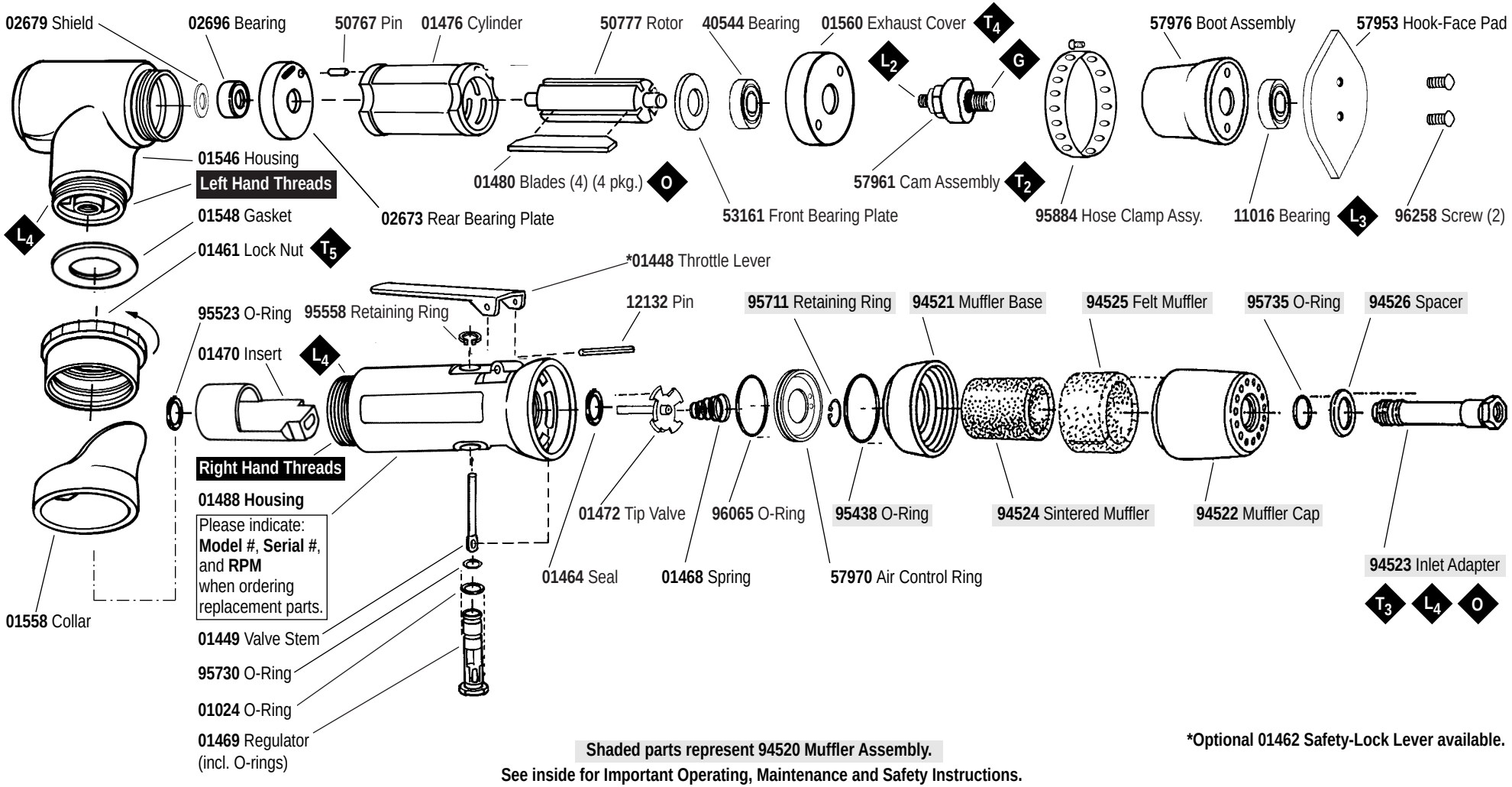
Models:
10800 — 15,000 RPM
10810 — Versatility Kit

KEY

- O Oil
- G Grease
- L Loctite/Hernon: **L_2 = Loctite #271, L_3 = Loctite #609, L_4 = Hernon #940**
- T Torque: N•m x 8.85 = In. - lbs. **T_2 = 10 N•m, T_3 = 23 N•m, T_4 = 28 N•m, T_5 = 45 N•m**

Air Powered Detail Sander.

⚠WARNING **Always operate, inspect and maintain this tool in accordance with the Safety Code for portable air tools (ANSI B186.1) and any other applicable safety codes and regulations. Please refer to Dynabrade's Warning/Safety Operating Instructions for more complete safety information.**



Shaded parts represent 94520 Muffler Assembly.

***Optional 01462 Safety-Lock Lever available.**

See inside for Important Operating, Maintenance and Safety Instructions.

Important Operating, Maintenance and Safety Instructions

Carefully read all instructions before operating or servicing any Dynabrade® Abrasive Power Tool.
Warning: Hand, wrist and arm injury may result from repetitive work motion and overexposure to vibration.
Important: All Dynabrade air tools must be used with a Filter-Regulator-Lubricator to maintain all warranties.

Operating Instructions:

Warning: Eye, face and body protection must be worn while operating power tools. Failure to do so may result in serious injury or death. Follow safety procedures posted in workplace.

1. With power source disconnected from tool, securely fasten abrasive/accessory on tool.
2. Install air fitting into inlet bushing of tool. **Important:** Secure inlet bushing of tool with a wrench before attempting to install the air fitting to avoid damaging valve body housing.
3. Connect power source to tool. Be careful not to depress throttle lever in the process.
4. Check tool speed with tachometer. If tool is operating at a higher speed than the RPM marked on the tool or operating improperly, the tool should be serviced to correct the cause before use.

Maintenance Instructions:

1. Check tool speed regularly with a tachometer. If tool is operating at a higher speed than the RPM marked on the tool, the tool should be serviced to correct the cause before use.
2. Some silencers on air tools may clog with use. Clean and replace as required.
3. All Dynabrade air motors should be lubricated. Dynabrade recommends one drop of air lube per minute for each 10 SCFM (example : if the tool specification state 40 SCFM, set the drip rate of your filter-lubricator at 4 drops per minute). Dynabrade Air Lube (P/N **95842**: 1pt. 473ml.) is recommended.
4. An air line filter-regulator-lubricator must be used with this air tool to maintain all warranties. Dynabrade recommends the following: **11289** Air Line Filter-Regulator-Lubricator — Provides accurate air pressure regulation, two-stage filtration of water contaminants and micro-mist lubrication of pneumatic components. Operates 40 CFM @ 100 PSI has 3/8" NPT female ports.
5. Use only genuine Dynabrade replacement parts. To reorder replacement parts, specify the **Model #**, **Serial #**, and **RPM** of your machine.
6. A motor tune-up kit (P/N **96236**) is available which includes assorted parts to help maintain motor in peek operating condition.
7. Mineral spirits are recommended when cleaning the tool and parts. Do not clean tool or parts with any solvents or oils containing acids, esters, keytones, chlorinated hydrocarbons or nitro carbons.

Safety Instructions:

Products offered by Dynabrade should not be converted or otherwise altered from original design without expressed written consent from Dynabrade, Inc.

- **Important:** User of tool is responsible for following accepted safety codes such as those published by the American National Standards Institute (ANSI).
- Operate machine for one minute before application to workpiece to determine if machine is working properly and safely before work begins.
- Always disconnect power supply before changing abrasive/accessory or making machine adjustments.
- Inspect abrasives/accessories for damage or defects prior to installation on tools.
- Please refer to Dynabrade's Warning/Safety Operating Instructions Tag (Reorder No. **95903**) for more complete safety information.

Notice

All Dynabrade motors use the highest quality parts and metals available and are machined to exacting tolerances. The failure of quality pneumatic motors can most often be traced to an unclean air supply or the lack of lubrication. Air pressure easily forces dirt or water contained in the air supply into motor bearings causing early failure. It often scores the cylinder walls and the rotor blades resulting in limited efficiency and power. Our warranty obligation is contingent upon proper use of our tools and cannot apply to equipment which has been subjected to misuse such as unclean air, wet air or a lack of lubrication during the use of this tool.

One Year Warranty

Following the reasonable assumption that any inherent defect which might prevail in a product will become apparent to the user within one year from the date of purchase, all equipment of our manufacture is warranted against defects in workmanship and materials under normal use and service. We shall repair or replace at our factory, any equipment or part thereof which shall, within one year after delivery to the original purchaser, indicate upon our examination to have been defective. Our obligation is contingent upon proper use of Dynabrade tools in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment which has been subject to misuse, negligence, accident or tampering in any way so as to affect its normal performance. Normally wearable parts such as bearings, contact wheels, rotor blades, etc., are not covered under this warranty.

Machine Number	Length Inch (mm)	Weight Pound (kg)	Spindle Thread	Air Flow Rate SCFM (LPM)	Sound Level	Motor HP (W)	Motor RPM	Air Pressure PSI (Bars)
10800	9.0" (228.6)	1.60 lbs. (.72)	None	19.0 (538)	65 dBA	.03 (22.4)	15,000	90 (6.21)

Additional specifications: Air Inlet Thread 1/4" (6 mm) NPT • Hose Size 1/2" (13 mm)

Disassembly/Assembly Instructions - DynaFine™

Important: Manufacturer's warranty is void if tool is disassembled before warranty expires

Notice: Dynabrade strongly recommends the use of their 52296 Repair Collar (sold separately) during assembly/disassembly activities. Failure to use this collar will highly increase the risk of damage to the valve body of this tool. Please refer to parts breakdown for part identification.

Motor Disassembly:

1. Disconnect tool from power source.
2. Secure air tool in vise using **52296** Repair Collar.
3. Remove sanding pad assembly.
4. Loosening **95884** Hose clamp.
5. Remove bearing/boot assembly.
6. With an adjustable pin wrench, remove **01560** Exhaust Cover by turning counter-clockwise.
7. Pull motor assembly from housing.
8. Remove **57961** Cam Assembly from rotor shaft.
9. Remove **53161** Front Bearing Plate, cylinder, and blades (4) from rotor. **Note:** The **40544** Bearing and **53161** Front Bearing Plate are a slip fit onto rotor.
10. Press rotor from **02673** Rear Bearing Plate. Remove **02679** Shield. Press **02696** Bearing from rear bearing plate.

Motor disassembly is complete.

Valve Body Disassembly:

1. Reposition motor housing in vise so inlet bushing is facing upwards.
2. Remove **94523** Inlet Bushing and muffler assembly from valve body housing. Using needle nose pliers, remove **01468** Spring, tip valve and seal.
3. Remove **95711** Retaining Ring from inlet adapter and disassemble muffler assembly.
4. Using a 2.5mm diameter drift pin and a hammer, tap **12132** Pin out from housing and remove throttle lever.
5. Remove **95558** Retaining Ring and push **01469** Speed Regulator from housing.

Tool disassembly is complete.

Motor Reassembly:

Important: Be sure parts are clean and in good repair before reassembly.

1. Place **50777** Rotor in padded vise with threaded spindle facing upwards.
2. Install bearing/bearing plate assembly onto rotor.
3. Tighten **57961** Cam Assembly onto rotor (torque to 17 N•m/150 in. - lbs.).
4. Install well lubricated **01480** Blades (4) into rotor slots. Dynabrade Air Lube P/N **95842** is recommended for lubrication.
5. Install cylinder over rotor. Be sure air inlet holes of cylinder face away from bearing plate and that the pin in the front bearing plate aligns correctly with the pin-hole in the cylinder.
6. Install **02696** Rear Bearing into **02673** Rear Bearing Plate. Press bearing/bearing plate assembly onto rotor. Be sure that pin and air inlet holes line-up with pin slot and air inlet holes in cylinder. Install **02679** Shield.
   Important: Fit must be snug between bearing plates and cylinder. A loose fit will not achieve the proper preload of motor bearings. If too tight, rotor will not turn freely. Rotor must then be lightly tapped at press fit end so it will turn freely while still maintaining a snug fit.
7. Secure housing in vise using **52296** Repair Collar.
8. Install motor assembly into housing. Be sure motor drops all the way into housing.
9. Install **01560** Exhaust Cover onto motor housing (torque 28 N•m/250 in. - lbs.).
10. Install boot assembly onto tool. Tighten **95884** Hose clamp.

Motor assembly is complete.

Valve Body Reassembly:

1. Insert **01469** Speed Regulator Assembly with **01449** Valve Stem with o-rings installed into housing. Secure with **95558** Retaining Ring.
2. Secure valve body in vise using **52296** Repair Collar with air inlet facing upwards.
3. Insert **01464** Seal into housing.
4. Line-up the hole in the **01449** Valve Stem with the hole in the housing (looking past brass bushing). Insert **01472** Tip Valve so that the metal pin passes through the hole in the valve stem. Install **01468** Spring (small end first).
5. Reassemble muffler assembly. Slip **94523** Inlet Adapter through muffler assembly and secure with **95711** Retaining Ring.
6. Install o-ring onto air control ring, install into valve body housing.
7. Apply Hernon #940 PST Pipe Sealant (or equivalent) to threads of inlet bushing and install muffler assembly onto valve body (torque 23.0 N•m/200 in. - lbs.).
8. Install throttle lever and **12132** Pin. Remove from vise.

Tool assembly is complete. Please allow 30 minutes for adhesives to cure before operating tool.

Important: Motor should now be tested for proper operation at 90 PSI. If motor does not operate properly or operates at a higher RPM than marked on the tool, the tool should be serviced to correct the cause before use. Before operating, place 2-3 drops of Dynabrade Air Lube (P/n 95842) directly into air inlet with throttle lever depressed. Operate tool for thirty seconds to determine if tool is operating properly and to allow lubricating oils to properly penetrate motor.

Optional Accessories

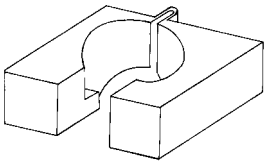
Dynaswivel®

Swivels 360° at two locations which allows an air hose to drop straight to the floor, no matter how the tool is held.

- **95460** 1/4" NPT.
- **95461** 3/8" NPT.
- **95462** 1/2" NPT.

96236 Motor Tune-Up Kit

- Includes assorted parts to help maintain motor in tip-top shape.



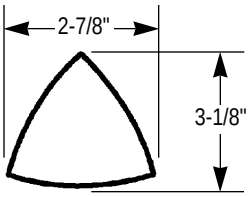
52296 Repair Collar

- Specially designed collar for use in vise to prevent damage to valve body housing during disassembly/assembly.

Pads/Abrasives

Triangular Shaped Pads		
Part Number	**Description**	**Density**
57950	Vinyl Face for PSA Abrasives	Medium
57951	Hook-Face for Reattachable Abrasives	Medium

Tear Drop Shaped Pads		
Part Number	**Description**	**Density**
57952	Vinyl Face for PSA Abrasives	Medium
57953	Hook-Face for Reattachable Abrasives	Medium



Triangular Reattachable Coated Abrasive Discs	
Part Number	**Grit**
93910	36
93911	40
93912	60
93913	80
93914	120
93915	150
93916	180

Uses **57951** Hook-Face Pad.

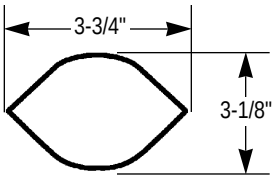
Triangular Non-Woven Nylon Discs	
Part Number	**Grit**
93930	Coarse
93931	Medium
93932	Fine
93933	Super Fine

Uses **57951** Hook-Face Pad.

Triangular Sponge Abrasive Discs	
Part Number	**Grit**
93923	Coarse
93924	Medium
93926	Fine
93927	Super Fine

Uses **57950** Vinyl Face Pad.
Aluminum Oxide PSA Sponge

Note: 93900 Triangular Abrasive Kit is available which includes an assortment of above items.



Tear Drop Reattachable Coated Abrasive Discs	
Part Number	**Grit**
93950	36
93951	40
93952	60
93953	80
93954	120
93955	150
93956	180

Uses **57953** Hook-Face Pad.

Tear Drop Non-Woven Nylon Discs	
Part Number	**Grit**
93970	Coarse
93971	Medium
93972	Fine
93973	Super Fine

Uses **57953** Hook-Face Pad.

Tear Drop Sponge Abrasive Discs	
Part Number	**Grit**
93963	Coarse
93964	Medium
93966	Fine
93967	Super Fine

Uses **57952** Vinyl Face Pad.
Aluminum Oxide PSA Sponge

Note: 93901 Tear Drop Abrasive Kit is available which includes an assortment of above items.

DYNABRADE®

Visit our new Web Site via Industry.Net MROP On-Line: http://www.dynabrade.industry.net **E-Mail:** DynaTalk@aol.com

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